

## **AMENDMENTS TO THE SPECIFICATION**

**Please amend paragraph [0003] on page 1 as follows:**

[0003]

In a typical wireless LAN ~~such as~~ used today, a wireless LAN control device (referred to as a "wireless access point" below) is connected by wire to a data socket, and a plurality of wireless LAN terminals communicate wirelessly with this wireless access point.

**Please amend paragraph [0033] on page 16 as follows:**

[0033]

Fig. 4A is a block diagram showing the arrangement of a wireless communication apparatus according to a second embodiment of the invention.

As shown in Fig. 4A, a wireless communication apparatus according to this embodiment of the invention has a transmission path fluctuation period detection unit 101b, a transmission control unit 102a to which the transmission path fluctuation period signals Tv1 and Tv2 output by transmission path fluctuation period detection unit 101b are input, a transmission unit 103 to which the transmission signal output by transmission control unit 102a is input, and an [[a]] antenna 104 connected to the transmission unit 103. A photoelectric conversion unit 106 is rendered inside the transmission path fluctuation period detection unit 101b.

**Please amend paragraph [0040] on page 19 as follows:**

[0040]

Fig. 6A is a block diagram showing the arrangement of a wireless communication apparatus according to a third embodiment of the invention.

As shown in Fig. 6A, a wireless communication apparatus according to this embodiment of the invention has a transmission path fluctuation period detection unit 101c, a transmission control unit 102a to which the transmission path fluctuation period signals Tv1 and Tv2 output by transmission path fluctuation period detection unit 101c are input, a transmission unit 103 to which the transmission signal output by transmission control unit 102a is input, a transmission/reception switch 107 which is connected to the transmission unit 103 and switches the input/output signals during transmission and reception, an [[a]] antenna 104 connected to the transmission/reception switch 107, and a reception unit 108 which is connected to the transmission/reception switch and based on the received wireless signal outputs reception data error information or wireless transmission path information to the transmission path fluctuation period detection unit 101c. A periodic signal generator 109 is also rendered inside the transmission path fluctuation period detection unit 101c.

As shown in Fig. 6A, the wireless communication apparatus according to this embodiment of the invention communicates with wireless terminal 110.

**Please amend paragraph [0051] on page 24 as follows:**

[0051]

Fig. 8A is a block diagram showing the arrangement of a wireless communication apparatus according to a fourth embodiment of the invention.

As shown in Fig. 8A, a wireless communication apparatus according to this embodiment of the invention has a transmission path fluctuation period detection unit 101d, a transmission control unit 102a to which the transmission path fluctuation period signals Tv1 and Tv2 output by transmission path fluctuation period detection unit 101d are input, a transmission unit 103 to which the transmission signal output by transmission control unit 102a is input, a transmission/reception switch 107 which is connected to the transmission unit 103 and switches the input/output signals during transmission and reception, ~~[[a]]~~ an antenna 104 connected to the transmission/reception switch 107, and a reception unit 108 which is connected to the transmission/reception switch and based on the received wireless signal outputs reception data error information or wireless transmission path information to the transmission path fluctuation period detection unit 101c. A periodic signal generator 109 is also rendered inside the transmission path fluctuation period detection unit 101c. An AC power supply meter 105 in the transmission path fluctuation period detection unit 101d is connected to an AC power source.

As shown in Fig. 8A, the wireless communication apparatus according to this embodiment of the invention communicates with wireless terminal 110.